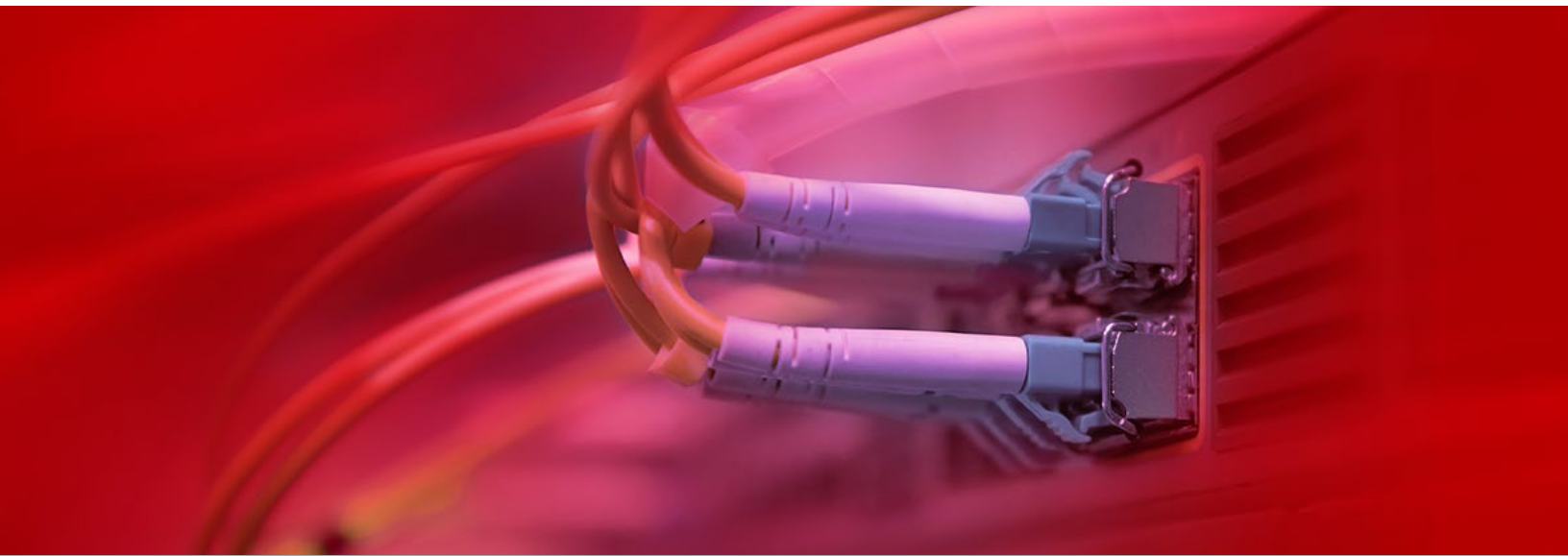


REFERENCE GUIDE

Storage Area Networks

Brocade[®] Fibre Channel Products



Storage Area Network (SAN) Directors

BROCADE MODEL	Gen 7 DIRECTORS	
	X7-8	X7-4
		
OEM Model	BR-X78-0002	BR-X74-0002
Port Blades	Gen 7 Blades for X7 BR-X764-2148 PORT BLADE, FC64-48, 48x64G SWL SFP+ BR-X764-1148 PORT BLADE, FC64-48, 48x32G SWL SFP+ BR-X764-3148 PORT BLADE, FC64-48, 48x32G LWL SFP+ BR-X764-5148 PORT BLADE, FC64-48, 48 64G LWL SFP+, BR Gen 6 Blades for X7: BR-X732-2148 PORT BLADE, FC32-X7-48, 48x32G SWL SFP+ BR-X732-5148 PORT BLADE, FC32-X7-48, 48x32G LWL SFP+ BR-X6-2164 PORT BLADE, FC32-64, 8 32G SWL QSFP BR-X6-2148* PORT BLADE, FC32-48, 48 32G SWL SFP+ BR-X6-0148* PORT BLADE, FC32-48, 0 SFP *Please contact Fujitsu Product Management for latest availability	Gen 7 Blades for X7 BR-X764-2148 PORT BLADE, FC64-48, 48x64G SWL SFP+ BR-X764-1148 PORT BLADE, FC64-48, 48x32G SWL SFP+ BR-X764-3148 PORT BLADE, FC64-48, 48x32G LWL SFP+ BR-X764-5148 PORT BLADE, FC64-48, 48 64G LWL SFP+, BR Gen 6 Blades for X7: BR-X732-2148 PORT BLADE, FC32-X7-48, 48x32G SWL SFP+ BR-X732-5148 PORT BLADE, FC32-X7-48, 48x32G LWL SFP+ BR-X6-2164 PORT BLADE, FC32-64, 8 32G SWL QSFP BR-X6-2148* PORT BLADE, FC32-48, 48 32G SWL SFP+ BR-X6-0148* PORT BLADE, FC32-48, 0 SFP *Please contact Fujitsu Product Management for latest availability
Power Supply	X6RACNPEPSU0104 NPE (4 x X78) X6RACNPIPSU0104 NPI (4 x X78)	X6RACNPEPSU0104 NPE (2 x X74) X6RACNPIPSU0104 NPI (2 x X74)
Fan	X6-FANNPE-0122 NPE (3 x X78) X6-FANNPI-0122 NPI (3 x X78)	X6-FANNPE-0122 NPE (2 x X74) X6-FANNPI-0122 NPI (2 x X74)
Rack Mount kit for IEA310	Included	Included
ICL POD		
ICL POD Gen 7 100m	BR-X71CLKIT-100M-01 X7 ICL PoD Kit, 8 x Gen 7 QSFPs	BR-X71CLKIT-100M-01 X7 ICL PoD Kit, 8 x Gen 7 QSFPs
ICL POD 32G 100m	BR-X7Gen61CLKIT-100M-1 X7 32G ICL Kit, 8 x 4x32G QSFPs 100m	BR-X7Gen61CLKIT-100M-1 X7 32G ICL Kit, 8 x 4x32G QSFPs 100m
ICL POD Gen 7 2Km	BR-X71CLKIT-2KM-01 X7 2KM Gen 7 ICL Kit, 8 2KM Gen 7 QSFP	BR-X71CLKIT-2KM-01 X7 2KM Gen 7 ICL Kit, 8 2KM Gen 7 QSFP
Licenses		
Enterprise Bundle	Included	Included
Fabric Vision	Included	Included
Extended Fabrics	Included	Included
ISL Trunking	Included	Included
Integrated Routing	Included	Included
FICON CUP	Included	Included
10G FC 10GE on SX6	Included	Included
Full Fabric	Included	Included

Storage Area Network (SAN) Directors

BROCADE MODEL	Gen 6 DIRECTORS*	
	X6-8	X6-4
		
OEM Model	BR-X68-0002-2	BR-X64-0002-2
Port Blades	BR-X6-2148 PORT BLADE, FC32-48, 48 32G SWL SFP+ BR-X6-0148 PORT BLADE, FC32-48, 48P, 0 SFP BR-X6-2164 PORT BLADE, FC32-64, 8 32G SWL QSFP	BR-X6-2148 PORT BLADE, FC32-48, 48 32G SWL SFP+ BR-X6-0148 PORT BLADE, FC32-48, 48P, 0 SFP BR-X6-2164 PORT BLADE, FC32-64, 8 32G SWL QSFP
Power Supply	X6RACNPEPSU0104 NPE (4 x X68) X6RACNPIPSU0104 NPI (4 x X68)	X6RACNPEPSU0104 NPE (2 x X64) X6RACNPIPSU0104 NPI (2 x X64)
Fan	X6-FANNPE-0122 NPE (3 x X68) X6-FANNPI-0122 NPI (3 x X68)	X6-FANNPE-0122 NPE (2 x X64) X6-FANNPI-0122 NPI (2 x X64)
Rack Mount kit for IEA310	Included	Included
ICL POD		
ICL POD 32G 100m	X68ICLKIT100M02 X6 ICL KIT, 16 4x32G QSFP 100m	X64ICLKIT100M02 X6 ICL KIT, 8 4x32G QSFP 100m
Licenses		
Enterprise Bundle	Included	Included
Fabric Vision	Included in EB	Included in EB
Extended Fabrics	Included in EB	Included in EB
ISL Trunking	Included in EB	Included in EB
Integrated Routing (Never Part of X6)	CHASIR128POD-01	CHASIR128POD-01
FICON CUP	Included	Included
10G FC 10GE on SX6	Included	Included
Full Fabric	Included	Included

*Available in Japan only

Storage Area Networks (SAN) Switches

BROCADE MODEL	Gen 7 (64G) SWITCHES		Gen 6 (32G) SWITCHES		
	G730 (Enterprise)	G720 (Midrange)	G630 (Enterprise)	G620 (Midrange)	G610 (Entry)
					
OEM MODEL and remarks	BR-G730-48-64G-R BR-G730-48-64G-F	BR-G720-24-32G-R BR-G720-24-32G-F BR-G720-24-64G-R BR-G720-24-64G-F	G630-48-32G-1-F G630-48-32G-1-R G630-96-32G-1-R	G620-48-32G-1-F G620-48-32G-1-R G620-24-32G-1-F G620-24-32G-1-R G620-24-16G-1-F G620-24-16G-1-R	G610-8-16G-5-L G610-24-16G-5-L G610-8-32G-5-L G610-24-32G-5-L
Powersupply	2 included	2 included	2 included	2 included	1 included
Fan	Included/Redundant	Included/Redundant	Included/Redundant	Included/Redundant	Included/Redundant
Rack Mount kit for IEA310	XBR-R000296	XBR-R000296	XBR-R000296	XBR-R000296	XBR-R000162
POD					
SFP	XBR-MENT24G7POD-64G • With 24 BR 64G SWL SFPs	XBR-MIDR8PTPOD-32G • With 8 x 32G SWL SFPs XBR-MIDR8PTPOD-64G • With 8 x 64G SWL SFPs	MENT24PTPOD-32G • With 32G SFP	G6MIDR12PTPOD32E • 12p, 12 x 32G SFP	SMED8PTPOD-16GE • 8p, 8 x 16G SWL SFP
SFP DD	XBR-MENT32DDG7POD-64G • With 16 BR 64G SWL SFP-DDs	XBR-MIDR16DDG7POD-64G • With 8 BR 64G SWL: SFP-DDs			
QSFP	Not available	Not available	MENT32QFLEX-32G • With 32G QSFP MENT32QFLEX-01 • Without QSFP	G6MIDR16QFX32GIL Includes 4 x 16G QSFP BREAKOUT! BRMIDR16QFLEX01L FLEXPOD no QSFP	
Licenses					
Enterprise Bundle (ENT)	Included	Included	MENTEB5-01	BR-MIDREB5-01 Included in G620-48-32G-F	BR-SMEDEB4-01 • Included in -24
Fabric Vision (FV)	Included	Included	Included in EB	Included in EB	Included in EB
Extended Fabrics (EXF)	Included	Included	Included in EB	Included in EB	Included in EB
ISL Trunking (TRK)	Included	Included	Included in EB	Included in EB	Included in EB
Integrated Routing (IR)	Included	Included	MENT128IRPOD-01	BR-MIDRIR-01	N/A
FICON CUP	N/A	Included	Not Supported	BR-MIDRMFEB-01	Not Supported
10G	Included but 10G SFPs are required	Included but 10G SFPs are required	Included but 10G SFP required	Included but 10G SFPs are required	
Full Fabric, WEBtools	Included	Included	Included	Included	Included

Storage Area Networks (SAN) Management

Brocade SAN Management	Fujitsu Part Number	Description
SANnav Management Portal Base License (Manage up to 600 Switch ports only)		
	BR-SSMPB1Y-01-OSUB	SANnav MP BASE 1YR 600 PRT, NO DIR
	BR-SSMPB3Y-01-OSUB	SANnav MP BASE 3YR 600 PRT, NO DIR
	BR-SSMPB5Y-01-OSUB	SANnav MP BASE 5YR 600 PRT, NO DIR
SANnav Management Portal Enterprise License (Manage up to 15,000 Switch & Director ports)		
	BR-SSMPE1Y-01-OSUB	SANnav MP ENT 1YR 15K PRT, DIR
	BR-SSMPE3Y-01-OSUB	SANnav MP ENT 3YR 15K PRT, DIR
	BR-SSMPE5Y-01-OSUB	SANnav MP ENT 5YR 15K PRT, DIR
SANnav Global View (Manage up to 10 SANnav Management Portal instances)		
	BR-SSGV1Y-01-OSUB	SANnav GLOBAL VIEW 1YR
	BR-SSGV3Y-01-OSUB	SANnav GLOBAL VIEW 3YR
	BR-SSGV5Y-01-OSUB	SANnav GLOBAL VIEW 5YR

Storage Area Network (SAN) Extension

BROCADE MODEL	EXTENSION SWITCHES	
	7840	7810
		
OEM MODEL and remarks	BR7840-0002 (LW SFPs) BR7840-0001 (SW SFPs)	7810-04X6-Z (7810, 4x6P, 16G SWL SFP) 7810-12X6-Z (7810, 12x6P, 16G SWL SFP)
Powersupply	2 included	2 included
Fan	All included	All included
Rack Mount kit for IEA310	XBR-R000296	XBR-R000296
USB Stick = Flash Drive 4G	XBR-USB-4GB	XBR-USB-4GB
POD		
SFP	LEXTSUG1-01 • Enables up to 10G WAN BW LEXTSUG2-01 • Enables the maximum throughput and the 2 x 40GE (Requires LEXTSUG1)	XBR-7810-UG-Z (7810 UPGRADE 8x 16G SWL SFP) Bundled with 16G FC Optics This upgrade enables EB, IR, Full Bandwidth and 10GE on the Ethernet SFP Ports
Licenses		
Enterprise Bundle (ENT)	Included	Included in 7810-12X6-Z and the Upgrade XBR-7810-UG-Z
Fabric Vision (FV)	Included	Included in 7810-12X6-Z and the Upgrade XBR-7810-UG-Z
Extended Fabrics (EXF)	Included	Included in 7810-12X6-Z and the Upgrade XBR-7810-UG-Z
ISL Trunking (TRK)	Included	Included in 7810-12X6-Z and the Upgrade XBR-7810-UG-Z
Integrated Routing (IR) Never part of Bndl or HW!	BR-MIDRIR-01 (IR)	Included in 7810-12X6-Z and the Upgrade XBR-7810-UG-Z
FICON CUP and FICON related licenses	MIDRCUP-01 LEXTSAFI-01 (Advanced Accelerator for FICON)	Not Supported
Full Fabric	Included	Included

Optics

	Description	Non secure P/N	Secure Version P/N*
FC SFP Short Wave 5µm MMF	BR SFP, SWL(MMF), 8G, 1-Pack	XBR-000163	N/A
	BR SFP, SWL(MMF), 8G, 8-Pack	XBR-000164	N/A
	SFP+, SWL(MMF), 10GFC, 1-Pack	XBR-000218	XBR-000418
	SFP+, SWL(MMF), 16G, 1-Pack	N/A	XBR-000492
	SFP+, SWL(MMF), 16G, 8-Pack	N/A	XBR-000493
	SFP+, SWL(MMF), 32G, 1-Pack	N/A	XBR-000412
	SFP+, SWL(MMF), 32G, 8-Pack	N/A	XBR-000413
SFP DD 50µm MMF	SFP-DD, SWL, 64G, 1-Pack	N/A	XBR-000464
	SFP-DD, SWL, 64G, 8-Pack	N/A	XBR-000465
SFP Long Wave 9µm SMF	BR SFP, LWL (SMF), 8G 10Km, 1-Pack	XBR-000153	N/A
	BR SFP, LWL (SMF), 8G 10Km, 8-Pack	XBR-000172	N/A
	BR SFP, LWL (SMF), 8G 25Km, 1-Pack	XBR-000174	N/A
	BR SFP+, LWL(SMF), 10GFC 10Km, 1-Pack	XBR-000217	XBR-000417
	SFP+, LWL(SMF), 16G 10km, 1-Pack	XBR-000198	XBR-000498
	SFP+, LWL(SMF), 16G 10km, 8-Pack	XBR-000199	XBR-000499
	FRU,SFP+,ELWL 25KM,16G,1-PK,BR	XBR-000258	XBR-000458
	SFP+, LWL(SMF), 32G, 10KM, 1-Pack	XBR-000238	XBR-000438
	SFP+, LWL(SMF), 32G, 10KM, 8-Pack	XBR-000239	XBR-000439
	32G 25Km ELWL SFP	XBR-000278	XBR-000478
	SFP+, ELWL, 32G, 25KM, 1-PK, BR, V2, SECURE	N/A	XBR-000479**
	SFP+, SWL, 64G, 1-Pack, SECURE	N/A	XBR-000462
	SFP+, SWL, 64G, 8-Pack, SECURE	N/A	XBR-000463
	SFP+, ELWL, 64G, 25KM, 1-PK, SECURE	N/A	XBR-000466
	SFP+, LWL, 64G, 10KM, 1-PK, SECURE	N/A	XBR-000468
	SFP+, LWL, 64G, 10KM, 8-PK, BR, SECURE	N/A	XBR-000469
QSFP	QSFP 16G Breakout capable	XBR-000245	N/A
	QSFP 32G Breakout capable	XBR-000275	XBR-000475
	QSFP Gen 7 for X7 ICLs	N/A	XBR-000420
	QSFP Gen 7 for X7 ICLs 2Km	N/A	XBR-000476
Ethernet	1GE Copper	XBR-000190	N/A
	1GE SR SFP	EIMG-SX-OM	N/A
	1GE LR SFP	EIMG-LXOM	N/A
	10GE SR SFP	XBR-000180	N/A
	10GE USR SFP	10G-SFPP-USR	N/A
	10GE LR SFP	XBR-000182	N/A
	40GE SR QSFP	S26361-F5294-L110	N/A
	40GE LR QSFP	S26361-F5317-L110	N/A

* To be used in G730, G720, FC64-48, FC32-X7-48, and X7 ICL Ports. Backward compatible.

Please see SFP matrix on <https://www.broadcom.com/products/fibre-channel-networking/transceiver-modules>

** Not released by Fujitsu yet. Does support 16G and 32G only. 32G ELWL XBR-000478 or XBR-000479 must be the same type on both ends of the ISL. They cannot be mixed. Please follow [this link](#) to the Transceiver Support Matrices, for planning.